

# Patent Assignment Abstract of Title

**Total Assignments: 1**

**Application #:** 09828382

**Filing Dt:** 04/06/2001

**PCT #:** NONE

**Patent #:** NONE

**Issue Dt:**

**Pub Dt:** 10/10/2002

**Inventors:** Ajith K. Kumar, Jeremy McGarry

**Title:** Method for detecting electrical faulty conditions in power devices of a propulsion system

**Assignment: 1**

**Reel/Frame:** 011735/0199 **Received:** 05/02/2001 **Recorded:** 04/06/2001 **Mailed:** 07/12/2001 **Pages:** 4

**Conveyance:** ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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**Exec Dt:** 03/22/2001

**Exec Dt:** 03/22/2001

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Search Results as of: 5/6/2003 11:57:20 A.M.

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 Web interface last modified: Oct. 5, 2002

DERWENT- 2003-198036

ACC-NO:

DERWENT- 200319

WEEK:

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**TITLE:** Electrical short detection method in power devices of railway train propulsion system, involves measuring voltage across power line filter for preset time, when initial voltage of filter is less than predefined threshold

**INVENTOR:** KUMAR, A K; MCGARRY, J

**PATENT-** KUMAR A K[KUMAI] , MCGARRY J  
**ASSIGNEE:** [MCGAI]

**PRIORITY-** 2001US-0828382 (April 6,  
**DATA:** 2001)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020145842	October 10, 2002	N/A	009 003/08	H02H 003/08

**APPLICATION-DATA:**

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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(17) United States

(18) Patent Application Publication

Kumar et al.

US 20020145842A1

(20) Pub. No: US 2002/0145842 A1

(21) Pub. Date: Oct. 10, 2002

(24) METHOD FOR DETECTING ELECTRICAL FAULTY CONDITIONS IN POWER DEVICES OF A PROPULSION SYSTEM

(25) U.S. CL ..... 361/180; 361/93.6; 361/92

(26) Inventor: Aish K. Kumar, Erie, PA (US); Jeremy McGarry, Erie, PA (US)

(27) ABSTRACT

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(28) Appl. No.: 09/214,382

(29) Filing Date: Apr. 6, 2001

Publication Classification

(30) Int. Cl.: H02H 1/00; H02H 5/04

A method for detecting electrical faulty conditions in a plurality of power devices of a propulsion system is provided. The plurality of power devices is connected in parallel circuit through a direct current (DC) link to an external DC power source. The method provides a first sequence of actions for determining an electrical short condition in at least one of the power devices upon the power source being connected. The method further provides a second sequence of actions for determining an electrical open condition in a respective one of the plurality of power devices during the occurrence of high current surges.

